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1 GPSR: greedy perimeter stateless routing for wireless networks   ▦
Brad Karp, H. T. Kung
August 2000 **Proceedings of the 6th annual international conference on Mobile computing and networking**
Full text available: 📄 pdf(1.41 MB)   Additional Information: full citation, abstract, references, citings

We present Greedy Perimeter Stateless Routing (GPSR), a novel routing protocol for wireless datagram networks that uses the positions of routers and a packet's destination to make packet forwarding decisions. GPSR makes greedy forwarding decisions using only information about a router's immediate neighbors in the network topology. When a packet reaches a region where greedy forwarding is impossible, the algorithm recovers by routing around the perim ...

2 Measuring the effects of internet path faults on reactive routing   ▦
Nick Feamster, David G. Andersen, Hari Balakrishnan, M. Frans Kaashoek
June 2003 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 2003 ACM SIGMETRICS international conference on Measurement and modeling of computer systems**, Volume 31 Issue 1
Full text available: 📄 pdf(394.56 KB)   Additional Information: full citation, abstract, references, citings, index terms

Empirical evidence suggests that reactive routing systems improve resilience to Internet path failures. They detect and route around faulty paths based on measurements of path performance. This paper seeks to understand *why* and under *what circumstances* these techniques are effective.To do so, this paper correlates end-to-end active probing experiments, loss-triggered traceroutes of Internet paths, and BGP routing messages. These correlations shed light on three questions about Inte ...

3 Transport protocols: A receiver-centric transport protocol for mobile hosts with heterogeneous wireless interfaces   ▦
Hung-Yun Hsieh, Kyu-Han Kim, Yujie Zhu, Raghupathy Sivakumar
September 2003 **Proceedings of the 9th annual international conference on Mobile computing and networking**
Full text available: 📄 pdf(577.61 KB)   Additional Information: full citation, abstract, references, citings, index terms

Numerous transport protocols have been proposed in related work for use by mobile hosts over wireless environments. A common theme among the design of such protocols is that

they specifically address the distinct characteristics of the last-hop wireless link, such as random wireless errors, round-trip time variations, blackouts, handoffs, etc. In this paper, we argue that due to the defining role played by the wireless link on a connection's performance, locating the intelligence of a transport ...

Keywords: bandwidth aggregation, heterogeneous wireless networks, multi-homed mobile host, seamless handoff, server migration

4   Interposed request routing for scalable network storage
February 2002 **ACM Transactions on Computer Systems (TOCS)**, Volume 20 Issue 1

Full text available: pdf(363.12 KB)   Additional Information: full citation, abstract, references, citings, index terms, review

This paper explores interposed request routing in Slice, a new storage system architecture for high-speed networks incorporating network-attached block storage. Slice interposes a request switching filter---called a μproxy---along each client's network path to the storage service (e.g., in a network adapter or switch). The μproxy intercepts request traffic and distributes it across a server ensemble. We propose request routing schemes for I/O and file service traffic, and explore th ...

Keywords: Content switch, file server, network file system, network storage, request redirection, service virtualization

5   IP paging service for mobile hosts
R. Ramjee, L. Li, T. La Porta, S. Kasera
July 2001   **Proceedings of the 7th annual international conference on Mobile computing and networking**

Full text available: pdf(355.04 KB)   Additional Information: full citation, abstract, references, citings, index terms

In wireless networks, mobile hosts must update the network with their current location in order to get packets delivered. Paging facilitates efficient power management at the mobile host by allowing the host to update the networkless frequently at the cost of providing the network with only approximate location information. The network determines the exact location of a mobile host through paging before delivering packets destined to the mobile host. In this paper, we propose the concept of p ...

6   Parallel and distributed systems and networking: A parallel index for semistructured data
Brian F. Cooper, Neal Sample, Moshe Shadmon
March 2002 **Proceedings of the 2002 ACM symposium on Applied computing**

Full text available: pdf(638.30 KB)   Additional Information: full citation, abstract, references, index terms

Database systems are increasingly being used to manage semistructured data, which may not have a fixed structure or set of relationships between data items. Indexes which use tree structures to manage semistructured data become unbalanced and difficult to parallelize due to the complex nature of the data. We propose a mechanism by which an unbalanced *vertical* tree is managed in a balanced way by additional layers of *horizontal* index. Then, the vertical tree can be partitioned among ...

7   Trajectory sampling for direct traffic observation
N. G. Duffield, Matthias Grossglauser
June 2001 **IEEE/ACM Transactions on Networking (TON)**, Volume 9 Issue 3

Additional Information: full citation, abstract, references, citings, index

Full text available: 📄 pdf(251.55 KB)   terms

Traffic measurement is a critical component for the control and engine ering of communication networks. We argue that traffic measurement should make it possible to obtain the spatial flow of traffic through the domain, i.e., the paths followed by packets between any ingress and egress point of the domain. Most resource allocation and capacity planning tasks can benefit from such information. Also, traffic measurements should be obtained without a routing model and without knowledge of netw ...

Keywords: Hash functions, Internet traffic measurement, packet sampling, traffic engineering

8 A mini-computer based interactive signal analysis system
August J. Ryberg
April 1978 **Proceedings of the 16th annual Southeast regional conference**
Full text available: 📄 pdf(441.85 KB)   Additional Information: full citation, abstract

The software structure of an Interactive Signal Analysis System (ISAS) is described in the following sections. The ISAS is embedded in a mini-computer based real-time machinery monitoring network and operates asynchronously with the software performing the monitoring functions. A brief description of the hardware configuration and operational modes for both the monitoring network and the ISAS is presented in the following section. Section III contains an overview of the ISAS requirements and a d ...

9 Devirtualizable virtual machines enabling general, single-node, online maintenance
David E. Lowell, Yasushi Saito, Eileen J. Samberg
October 2004 **Proceedings of the 11th international conference on Architectural support for programming languages and operating systems**, Volume 32 , 38 , 39 Issue 5 , 5 , 11
Full text available: 📄 pdf(174.01 KB)   Additional Information: full citation, abstract, references, index terms

Maintenance is the dominant source of downtime at high availability sites. Unfortunately, the dominant mechanism for reducing this downtime, cluster rolling upgrade, has two shortcomings that have prevented its broad acceptance. First, cluster-style maintenance over many nodes is typically performed a few nodes at a time, mak-ing maintenance slow and often impractical. Second, cluster-style maintenance does not work on single-node systems, despite the fact that their unavailability during mainte ...

Keywords: availability, online maintenance, planned downtime, virtual machines

10 An overview of the BlueGene/L Supercomputer
NR Adiga, G Almasi, GS Almasi, Y Aridor, R Barik, D Beece, R Bellofatto, G Bhanot, R Bickford, M Blumrich, AA Bright, J Brunheroto, C Caşcaval, J Castaños, W Chan, L Ceze, P Coteus, S Chatterjee, D Chen, G Chiu, TM Cipolla, P Crumley, KM Desai, A Deutsch, T Domany, MB Dombrowa, W Donath, M Eleftheriou, C Erway, J Esch, B Fitch, J Gagliano, A Gara, R Garg, R Germain, ME Giampapa, B Gopalsamy, J Gunnels, M Gupta, F Gustavson, S Hall, RA Haring, D Heidel, P Heidelberger, LM Herger, D Hoenicke, RD Jackson, T Jamal-Eddine, GV Kopcsay, E Krevat, MP Kurhekar, AP Lanzetta, D Lieber, LK Liu, M Lu, M Mendell, A Misra, Y Moatti, L Mok, JE Moreira, BJ Nathanson, M Newton, M Ohmacht, A Oliner, V Pandit, RB Pudota, R Rand, R Regan, B Rubin, A Ruehli, S Rus, RK Sahoo, A Sanomiya, E Schenfeld, M Sharma, E Shmueli, S Singh, P Song, V Srinivasan, BD Steinmacher-Burow, K Strauss, C Surovic, R Swetz, T Takken, RB Tremaine, M Tsao, AR Umamaheshwaran, P Verma, P Vranas, TJC Ward, M Wazlowski, W Barrett, C Engel, B Drehmel, B Hilgart, D Hill, F Kasemkhani, D Krolak, CT Li, T Liebsch, J Marcella, A Muff, A Okomo, M Rouse, A Schram, M Tubbs, G Ulsh, C Wait, J Wittrup, M Bae, K Dockser, L Kissel, MK Seager, JS Vetter, K Yates

November 2002 **Proceedings of the 2002 ACM/IEEE conference on Supercomputing**

Full text available: pdf(357.61 KB)   Additional Information: full citation, abstract, references, citings, index terms

This paper gives an overview of the BlueGene/L Supercomputer. This is a jointly funded research partnership between IBM and the Lawrence Livermore National Laboratory as part of the United States Department of Energy ASCI Advanced Architecture Research Program. Application performance and scaling studies have recently been initiated with partners at a number of academic and government institutions, including the San Diego Supercomputer Center and the California Institute of Technology. This mass ...

11 Storage protocol designs: A study of iSCSI extensions for RDMA (iSER)
Mallikarjun Chadalapaka, Hemal Shah, Uri Elzur, Patricia Thaler, Michael Ko
August 2003 **Proceedings of the ACM SIGCOMM workshop on Network-I/O convergence: experience, lessons, implications**
Full text available: pdf(281.32 KB)   Additional Information: full citation, abstract, references, index terms

The iSCSI protocol is the IETF standard that maps the SCSI family of application protocols onto TCP/IP enabling convergence of storage traffic on to standard TCP/IP fabrics. The ability to efficiently transfer and place the data on TCP/IP networks is crucial for this convergence of the storage traffic. The iWARP protocol suite provides Remote Direct Memory Access (RDMA) semantics over TCP/IP networks and enables efficient memory-to-memory data transfers over an IP fabric. This paper studies the ...

Keywords: DA, DDP, DI, Datamover, MPA, RDMA, RDMAP, SCSI, Verbs, iSCSI, iSER, iWARP

12 Binding as a mechanism to support reusability in a distributed Ada communications system
Thomas L. Chen, Walter Sobkiw
July 1989 **Proceedings of the sixth Washington Ada symposium on Ada**

Full text available: pdf(647.53 KB)   Additional Information: full citation, references, index terms

13 Trust management for IPsec
May 2002 **ACM Transactions on Information and System Security (TISSEC)**, Volume 5 Issue 2

Full text available: pdf(321.98 KB)   Additional Information: full citation, abstract, references, citings, index terms, review

IPsec is the standard suite of protocols for network-layer confidentiality and authentication of Internet traffic. The IPsec protocols, however, do not address the policies for how protected traffic should be handled at security end points. This article introduces an efficient policy management scheme for IPsec, based on the principles of trust management. A compliance check is added to the IPsec architecture that tests packet filters proposed when new security associations are created for confo ...

Keywords: Credentials, IPsec, KeyNote, network security, policy, trust management

14 Features: TCP Offload to the Rescue
Andy Currid
May 2004 **Queue**, Volume 2 Issue 3

Full text available: pdf(1.82 MB)   Additional Information: full citation, index terms

html(28.93 KB)

15 Mobility, roaming, and handoff: Secure universal mobility for wireless internet

Ashutosh Dutta, Tao Zhang, Sunil Madhani, Kenichi Taniuchi, Kensaku Fujimoto, Yasuhiro Katsube, Yoshihiro Ohba, Henning Schulzrinne

October 2004 **Proceedings of the 2nd ACM international workshop on Wireless mobile applications and services on WLAN hotspots**

Full text available: pdf(1.10 MB)   Additional Information: full citation, abstract, references, index terms

The advent of the mobile wireless Internet has created the need for seamless and secure communication over heterogeneous access networks such as IEEE 802.11, WCDMA, cdma2000, and GPRS. An enterprise user desires to be reachable while outside one's enterprise networks and requires minimum interruption while ensuring that the signaling and data traffic is not compromised during one's movement within the enterprise and between enterprise and external networks. We describe the design, implementat ...

Keywords: 802.11, handoff, hot spot, mobile IP, mobility, security

16 Session III: Mobility Management in multimedia networks: Mobility support in unified communication networks

Helen J. Wang, Randy H. Katz

July 2001   **Proceedings of the 4th ACM international workshop on Wireless mobile multimedia**

Full text available: pdf(1.11 MB)   Additional Information: full citation, abstract, references, index terms

Rapid advances in communication networks and device technologies have enabled people with powerful means of communications. It is common for any individual to be associated with a number of heterogeneous communication devices (such as phones, pagers, PDAs) or a variety of applications (such as e-mail, instant messaging, or chat-rooms). This phenomenon has spurred a great demand for *unifie dcommunication* [20] services which integrate one's various communication mechanisms in a meaningful a ...

17 Industrial sessions: middle-tier caching: Middle-tier database caching for e-business

Qiong Luo, Sailesh Krishnamurthy, C. Mohan, Hamid Pirahesh, Honguk Woo, Bruce G. Lindsay, Jeffrey F. Naughton

June 2002 **Proceedings of the 2002 ACM SIGMOD international conference on Management of data**

Full text available: pdf(1.20 MB)   Additional Information: full citation, abstract, references, citings, index terms

While scaling up to the enormous and growing Internet population with unpredictable usage patterns, E-commerce applications face severe challenges in cost and manageability, especially for database servers that are deployed as those applications' backends in a multi-tier configuration. Middle-tier database caching is one solution to this problem. In this paper, we present a simple extension to the existing federated features in DB2 UDB, which enables a regular DB2 instance to become a DBCache wi ...

18 Passive measurements: Pop-level and access-link-level traffic dynamics in a tier-1 POP

Supratik Bhattacharyya, Christophe Diot, Jorjeta Jetcheva

November 2001 **Proceedings of the 1st ACM SIGCOMM Workshop on Internet Measurement**

Full text available: pdf(3.31 MB)   Additional Information: full citation, abstract, references, citings, index terms

In this paper, we study traffic demands in an IP bacbkone, identify the routes used by these demands, and evaluate traffic granularity levels that are attractive for improving the poor load balancing that our study reveals. The data used in this study was collected at a major POP in a commercial Tier-1 IP backbone. In the first part of this paper we ask two questions. What is the traffic demand between a pair of POPs in the backbone? How stable is this demand? We develop a methodology that combi ...

19 Dynamic Metadata Management for Petabyte-Scale File Systems

Sage A. Weil, Kristal T. Pollack, Scott A. Brandt, Ethan L. Miller
November 2004 **Proceedings of the 2004 ACM/IEEE conference on Supercomputing**

Full text available: pdf(175.04 KB)   Additional Information: full citation, abstract

In petabyte-scale distributed file systems that decouple read and write from metadata operations, behavior of the metadata server cluster will be critical to overall system performance and scalability. We present a dynamic subtree partitioning and adaptive metadata management system designed to efficiently manage hierarchical metadata workloads that evolve over time. We examine the relative merits of our approach in the context of traditional workload partitioning strategies, and demonstrate the ...

20 Proceedings - only: Distributing processing without DPEs: design considerations for public computing platforms

Timothy Roscoe, Bryan Lyles
September 2000 **Proceedings of the 9th workshop on ACM SIGOPS European workshop: beyond the PC: new challenges for the operating system**

Full text available: pdf(79.14 KB)   Additional Information: full citation, references, citings

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